EMBL-EBI
European Bioinformatics Institute

Get [Nucleotide sequences] [▼] for [   ] [Go] [?] [Site search]

EBI Home | About EBI | Research | Services | Toolbox | Databases | Downloads
ANALYSIS TOOLS

EBI Generic DB Entry Retrieval

```
ID    CBFLANGE    standard; DNA; PRO; 1099 BP.
XX
AC    X70821;
XX
SV    X70821.1
XX
DT    13-OCT-1993 (Rel. 37, Created)
DT    13-OCT-1993 (Rel. 37, Last updated, Version 2)
XX
DE    C.botulinum (strain proteolytic F Langeland) gene for neurotoxin type F.
XX
KW    boNT/F gene; botulinum neurotoxin type F.
XX
OS    Clostridium botulinum
OC    Bacteria; Firmicutes; Clostridia; Clostridiales; Clostridiaceae;
OC    Clostridium.
XX
RN    [1]
RX    MEDLINE; 94013372.
RA    Campbell K., East A.K., Collins M.D.;
RT    "Gene probes for identification of the botulinal neurotoxin gene and
RT    specific identification of neurotoxin types B, E, and F";
RL    J. Clin. Microbiol. 31:2255-2262(1993).
XX
RN    [2]
RP    1-1099
RA    Campbell K.D.;
RT    ;
RL    Submitted (28-JAN-1993) to the EMBL/GenBank/DDBJ databases.
RL    K.D. Campbell, AFRC Inst of Food Research, Reading Laboratory, Microbiolog
RL    Dept, Earley Gate, Whiteknights Rd, Reading RG6 2EF, UK
XX
DR    SPTREMBL; Q57236; Q57236.
XX
FH    Key             Location/Qualifiers
FH
FT    source          1..1099
FT                    /db_xref="taxon:1491"
FT                    /organism="Clostridium botulinum"
FT                    /strain="type F, proteolytic F langeland (NCTC 1028)"
FT                    /clone="pFLangeland"
FT    CDS             <1..>1099
FT                    /codon_start=2
FT                    /db_xref="SPTREMBL:Q57236"
FT                    /transl_table=11
FT                    /gene="BoNT/F"
FT                    /product="botulinum neurotoxin type F"
```

```
FT                      /protein_id="CAA50152.1"
FT                      /translation="VQKENFKEAFELLGAGILLEFVPELLIPTILVFTIKSFIGSSEN
FT                      NKIIKAINNSLMERETKWKEIYSWIVSNWLTRINTQFNKRKEQMYQALQNQVDAIKTV
FT                      EYKYNNYTSDERNRLESEYNINNIREELNKKVSLAMENIERFITESSIFYLMKLINEA
FT                      VSKLREYDEGVKEYLLDYISEHRSILGNSVQELNDLVTSTLNNSIPFELSSYTNDKIL
FT                      LYFNKLYKKIKDNSILDMRYENNKFIDISGYGSNISINGDVYIYSTNRNQFGIYSSKP
FT                      EVNIAQNNDIIYNGRYQNFSISFWVRIPKYFNKVNLNNEYTIIDCIRNNNSGWKISLN
FT                      NKIIWTLQDTAGNNQKLVFNYTQMIS"
XX
SQ     Sequence 1099 BP; 483 A; 93 C; 160 G; 363 T; 0 other;
       ggtacaaaaa gaaaatttta aggaggcatt tgaattatta ggagcgggta ttttattaga         6
       atttgtgcca gagcttttaa ttcctacaat tttagtgttt acaataaaat cctttatagg        12
       ttcatctgag aataaaaata aaatcattaa agcaataaat aattcattaa tggaaagaga        18
       aacaaagtgg aaagaaatat atagttggat agtatcaaat tggcttacta gaattaatac        24
       acaatttaat aaaagaaaag aacaaatgta tcaagctttg caaaatcaag tagatgcaat        30
       aaaaacagta atagaatata aatataataa ttatacttca gatgagagaa atagacttga        36
       atctgaatat aatatcaata atataagaga agaattgaac aaaaaagttt ctttagcaat        42
       ggaaaatata gagagattta aacagagag ttctatattt tatttaatga agttaataaa        48
       tgaagccaaa gttagtaaat taagagaata tgatgaaggc gttaaggaat atttgctaga        54
       ctatatttca gaacatagat caattttagg aaatagtgta caagaattaa atgatttagt        60
       gactagtact ctgaataata gtattccatt tgaactttct tcatatacta atgataaaat        66
       tctaatttta tattttaata aattatataa aaaaattaaa gataactcta ttttagatat        72
       gcgatatgaa aataataaat ttatagatat ctctggatat ggttcaaata taagcattaa        78
       tggagatgta tatatttatt caacaaatag aaatcaattt ggaatatata gtagtaagcc        84
       tagtgaagtt aatatagctc aaaataatga tattatatac aatggtagat atcaaaattt        90
       tagtattagt ttctgggtaa ggattcctaa atacttcaat aaagtgaatc ttaataatga        96
       atatactata atagattgta taaggaataa taattcagga tggaaaatat cacttaatta       102
       taataaaata atttggactt tacaagatac tgctggaaat aatcaaaaac tagtttttaa       108
       ttatacacaa atgattagt                                                    109
//
```